Author Index Volume 17

Abe, M., 85
Adam, D.R., 209
Akselrod, S., 209
Alboni, P., 25, 385
Allibardi, P., 169
Anderson, R.N., 319
Asano, M., 289
Bagger, J.P., 347
Baratto, M., 67
Berman, M.A., 1
Bessoudo, R.M., 319
Bjerregaard, P., 347
Bonamini, R., 91
Bongiorni, M.G., 67
Brenner, J.I., 1
Brill, D.M., 97
Brusca, A., 91
Caine, R., 75
Carliner, N., 15
Carson, W., 253
Casale, P.N., 115
Cascio, W.E., 63
Castellanos, A., 195
Cohen, R.J., 209
Contini, C., 67
Danoviz, Julio, 409
de Guise, J., 271
Delise, P., 169
De Lorenzi, E., 25, 385
Devereux, R.B., 115
Dhurandhar, R.W., 205
Diaz, P., 329
Di Pede, F., 169
Dohi, Y., 303
Dolabjian, Z.L., 307
Donner, A.P., 153
Dower, G.E., 189
Doyle, J.T., 107
Dubois, R., 195
Eisenberg, R.R., 115
Engel, T.R., 75
Filippi, L., 25, 385
Fineberg, N.S., 377
Finnegan, J.O., 75
Fisher, M., 15
Foster, J.r., 63
Freeman, G., 409
Fudemoto, Y., 47
Fujimoto, K., 7
Fujino, K., 161, 219
Gann, D., 263
Gardner, M.J., 319
Geuze, R.H., 353
Gotzsche, H., 347
Gulrajani, R.M., 271
Gunnar, R.M., 409
Harp, R.J., 239
Hashiomoto, H., 229, 289
Hayashi, H., 85
Herlitz, J., 139, 361
Higuchi, T., 219
Hirose, H., 43
Hjalmarson, A., 139, 361
Horacek, B.M., 179, 319
Huang, P.-J., 253
Humphrey, S.B., 157
Hwang, Ming H., 409
Ide, M., 303
Jain, R.K., 205
Johnstone, D.E., 319
Jones, Douglas L., 393
Kushner, M., 15
Kamikawa, T., 85
Kashima, T., 371
Kato, Y., 199
Kawai, N., 401
Kawataki, M., 371
Kennedy, H.D., 1
Kinoshita, S., 199
Klassen, G.A., 179
Klein, G.J., 153, 393
Kligfield, P., 115, 129
Kobayshi, A., 85
Kondo, T., 401
Koster, R.W., 353
Kowey, P.R., 75
Kushner, M., 15
Lalonde, L.D., 319
Lavorato, D., 67
Liebman, J., 329
Luceri, R.M., 195
McKinney, C.M., 153
McManus, C.D., 107
Magiros, E., 15
Maisel, A.S., 97
Mangiardi, L., 91
Martuscelli, E., 169
Mashima, S., 79
Masoni, A., 25, 385
Masumura, Y., 85
Mazzocca, G., 67
Melgarejo, E., 195
Mirvis, D., 33
Monaghan, G.B., 157
Montague, T.J., 179, 319
Nadeau, R.A., 271
Nagaya, R., 55
Nakagawa, K., 199
Nakashima, M., 229, 289
Nakaya, Y., 161, 219
Niggemann, B., 263
Nishihara, K., 85
Noble, L.M., 157
Noda, S., 401
Nyberg, S., 209
Ohta, T., 55
Okada, M., 123, 401
Osugi, J., 55
Pauletti, M., 67
Peters, R., 15
Pham-Huy, G., 271
Phillips, M.C., 115
Piccolo, E., 169
Pickoff, A.S., 145
Pipberger, H.V., 107
Pirani, R., 25, 385
Plonsey, R., 329
Plotnick, G., 15
Powell, A.O., 209
Prabhu, R., 97
Presbitero, P., 91
Primeau, R.E., 271
Qi, W.H., 377
Quintal, R., 205
Rao, P.S., 239
Rasmussen, K., 347
Reale, A., 169
Ringel, R.E., 1
Roberge, F.A., 271
Roberts, G.S., 1
Rosettani, E., 91
Rudy, Y., 329
Rush, S., 309
Saito, K., 161, 219
Savard, P., 271
Sawazaki, H., 43
Scarfo', S., 385
Schmidt, G., 79
Sheiban, I., 169
Shen, T.K., 79
Sheps, D.S., 63
Singh, S., 145
Smith, E.R., 319
Smith, J.M., 209
Sotobata, I., 401
Spencer, C.A., 179, 319
Sugano, S., 43
Suzuki, K., 7, 47, 229
Suzuki, Y., 85
Suma, Y., 161
Sumi, M., 161, 219
Surawicz, B., 377
Sylven, J.C., 179
Tajima, T., 303
Takahashi, M., 161
Takatsu, F., 55
Takayanagi, K., 79
Tanaka, H., 371
Thapar, M.K., 239
Thomas, C.W., 329
Thomsen, P.E.B., 347
Toda, H., 371
Tomasi, A.M., 385
Torres-Arraut, E., 145
Toyama, J., 55
Toyama, S., 7, 47
Trevi, G., 169
Tseng, C.-D., 253
Tseng, Y.-Z., 253
Tsuzuki, J., 401
Waldenstrom, J., 363
Wartak, J., 193
Watt, J.H., 153
Wu, T.-L., 253
Yamada, K., 55
Yamamoto, T., 43
Yamauchi, K., 401
Yamazaki, N., 85
Yasukouchi, T., 199
Yokota, M., 401
Yoshino, K., 7, 47
Zao, Z.Z., 313
Zema, M.J., 129

Author Index Volume 17

Abe, M., 85
Adam, D.R., 209
Akselrod, S., 209
Alboni, P., 25, 385
Allibardi, P., 169
Anderson, R.N., 319
Asano, M., 289
Bagger, J.P., 347
Baratto, M., 67
Berman, M.A., 1
Bessoudo, R.M., 319
Bjerregaard, P., 347
Bonamini, R., 91
Bongiorni, M.G., 67
Brenner, J.I., 1
Brill, D.M., 97
Brusca, A., 91
Caine, R., 75
Carliner, N., 15
Carson, W., 253
Casale, P.N., 115
Cascio, W.E., 63
Castellanos, A., 195
Cohen, R.J., 209
Contini, C., 67
Danoviz, Julio, 409
de Guise, J., 271
Delise, P., 169
De Lorenzi, E., 25, 385
Devereux, R.B., 115
Dhurandhar, R.W., 205
Diaz, P., 329
Di Pede, F., 169
Dohi, Y., 303
Dolabjian, Z.L., 307
Donner, A.P., 153
Dower, G.E., 189
Doyle, J.T., 107
Dubois, R., 195
Eisenberg, R.R., 115
Engel, T.R., 75
Filippi, L., 25, 385
Fineberg, N.S., 377
Finnegan, J.O., 75
Fisher, M., 15
Foster, J.r., 63
Freeman, G., 409
Fudemoto, Y., 47
Fujimoto, K., 7
Fujino, K., 161, 219
Gann, D., 263
Gardner, M.J., 319
Geuze, R.H., 353
Gotzsche, H., 347
Gulrajani, R.M., 271
Gunnar, R.M., 409
Harp, R.J., 239
Hashiomoto, H., 229, 289
Hayashi, H., 85
Herlitz, J., 139, 361
Higuchi, T., 219
Hirose, H., 43
Hjalmarson, A., 139, 361
Horacek, B.M., 179, 319
Huang, P.-J., 253
Humphrey, S.B., 157
Hwang, Ming H., 409
Ide, M., 303
Jain, R.K., 205
Johnstone, D.E., 319
Jones, Douglas L., 393
Kushner, M., 15
Kamikawa, T., 85
Kashima, T., 371
Kato, Y., 199
Kawai, N., 401
Kawataki, M., 371
Kennedy, H.D., 1
Kinoshita, S., 199
Klassen, G.A., 179
Klein, G.J., 153, 393
Kligfield, P., 115, 129
Kobayshi, A., 85
Kondo, T., 401
Koster, R.W., 353
Kowey, P.R., 75
Kushner, M., 15
Lalonde, L.D., 319
Lavorato, D., 67
Liebman, J., 329
Luceri, R.M., 195
McKinney, C.M., 153
McManus, C.D., 107
Magiros, E., 15
Maisel, A.S., 97
Mangiardi, L., 91
Martuscelli, E., 169
Mashima, S., 79
Masoni, A., 25, 385
Masumura, Y., 85
Mazzocca, G., 67
Melgarejo, E., 195
Mirvis, D., 33
Monaghan, G.B., 157
Montague, T.J., 179, 319
Nadeau, R.A., 271
Nagaya, R., 55
Nakagawa, K., 199
Nakashima, M., 229, 289
Nakaya, Y., 161, 219
Niggemann, B., 263
Nishihara, K., 85
Noble, L.M., 157
Noda, S., 401
Nyberg, S., 209
Ohta, T., 55
Okada, M., 123, 401
Osugi, J., 55
Pauletti, M., 67
Peters, R., 15
Pham-Huy, G., 271
Phillips, M.C., 115
Piccolo, E., 169
Pickoff, A.S., 145
Pipberger, H.V., 107
Pirani, R., 25, 385
Plonsey, R., 329
Plotnick, G., 15
Powell, A.O., 209
Prabhu, R., 97
Presbitero, P., 91
Primeau, R.E., 271
Qi, W.H., 377
Quintal, R., 205
Rao, P.S., 239
Rasmussen, K., 347
Reale, A., 169
Ringel, R.E., 1
Roberge, F.A., 271
Roberts, G.S., 1
Rosettani, E., 91
Rudy, Y., 329
Rush, S., 309
Saito, K., 161, 219
Savard, P., 271
Sawazaki, H., 43
Scarfo', S., 385
Schmidt, G., 79
Sheiban, I., 169
Shen, T.K., 79
Sheps, D.S., 63
Singh, S., 145
Smith, E.R., 319
Smith, J.M., 209
Sotobata, I., 401
Spencer, C.A., 179, 319
Sugano, S., 43
Suzuki, K., 7, 47, 229
Suzuki, Y., 85
Suma, Y., 161
Sumi, M., 161, 219
Surawicz, B., 377
Sylven, J.C., 179
Tajima, T., 303
Takahashi, M., 161
Takatsu, F., 55
Takayanagi, K., 79
Tanaka, H., 371
Thapar, M.K., 239
Thomas, C.W., 329
Thomsen, P.E.B., 347
Toda, H., 371
Tomasi, A.M., 385
Torres-Arraut, E., 145
Toyama, J., 55
Toyama, S., 7, 47
Trevi, G., 169
Tseng, C.-D., 253
Tseng, Y.-Z., 253
Tsuzuki, J., 401
Waldenstrom, J., 363
Wartak, J., 193
Watt, J.H., 153
Wu, T.-L., 253
Yamada, K., 55
Yamamoto, T., 43
Yamauchi, K., 401
Yamazaki, N., 85
Yasukouchi, T., 199
Yokota, M., 401
Yoshino, K., 7, 47
Zao, Z.Z., 313
Zema, M.J., 129

Subject Index, Vol. 17, 1984

A

Accessory pathway
application of the single moving dipole inverse solution to the study of the Wolfe-Parkinson-White Syndrome in man, 3:271-288

Acetylcholine, local release of
studies on the mechanisms of secondary pause after high rate at atrial pacing, 1:79-84

Alteration of automonic tone
studies on the mechanisms of secondary pause after high rate atrial pacing, 1:79-84

Alternans of repolarization
effects of the ventricular premature beat on the alternation of the repolarization phase in ischemic myocardium during acute coronary occlusion in dogs, 3:229-238

Ambulatory ECG monitoring
clinical experience with a new dynamic display system for ambulatory ECG recordings, 1:67-74

Ameroid constrictors
electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis, 1:33-42

Amiodarone
electrophysiologic effects of Tween 80 in the myocardium and specialized conduction system of the canine heart, 2:145-152

Aneurysm
ST segment elevation with ventricular aneurysm: results of encircling endocardial ventriculotomy, 1:75-78

Animal studies
Electrophysiologic effects of Tween 80 in the myocardium and specialized conduction system of the canine heart, 2:145-152
influence of varied $[Ca^{2-}]_o$ and $[Na^+]_o$ on slow responses of newborn and adult rate hearts, 1:43-46

Annihilation
modulation of ventricular parasystole by extraneous depolarizations, 2:195-198

Anterior conduction delay
electrocardiographic tall R waves in the right precordial leads, 2:129-138

Antiarrhythmic effects
effects of L-carnitine on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90

Arrhythmias
polymorphic ventricular tachycardia and other complex arrhythmias in organophosphate insecticide poisoning, 1:97-102

ATP
effects of L-carnitine on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90

Atrial fibrillation
elective cardioversion in the presence of conduction disturbances, 1:63-66
the cardiac rhythm in accidental hypothermia, 2:123-128
minimal sampling interval to estimate average rate, 2:153-156

Atrial flutter
elective cardioversion in the presence of conduction disturbances, 1:63-66

Atrial septal defect, secundum,
intracardiac electrography in patients before and after surgical repair of, 4:347-352

Atrioventricular block
exercise induced "Mobitz type II" second degree AV block in a patient with chronic bifascicular block (right bundle branch block and left anterior hemiblock), 4:409-412

Automaticity
modulation of ventricular parasystole by extraneous deploarizations, 2:195-198

Autonomic nervous system
the role of, on sinus node function in patients with intermittent sinoatrial clock, 1:25-32

Autonomic regulation
latent abnormalities of sinus node function in patients with organic heart disease and normal sinus node on clinical basis, 4:385-392

AV conduction
the electrophysiologic effects of oral cibenzoline, 1:15-24

Azimuth of initial QRS vectors
correlation between the direction of the interventricular septum estimated with transmission computed tomography and the initial QRS vectors, 4:401-408

B

Bazett's formula
relation between QT interval and heart rate. Applications and limitations of Bazzet's formula, 4:371-376

Block
co-existing tachycardia and bradycardia dependent incomplete and complete right bundle branch, evidence for diffuse conduction system involvement, 3:303-306

Block
intermittent sinoatrial
the role of the autonomic nervous system on sinus node function in patients with, 1:25-32
left bundle branch
left ventricular hypertrophy in, 2:157-160
left septal fascicular
electrocardiographic tall R waves in the right precordial leads, 2:129-138
type II second degree entrance,
second degree entrance block with supernormal conduction in intermittent ventricular parasystole, 2:199-204

Brady-arrhythmias
ventricular fibrillation and transient arrhythmias after defibrillation in patients with acute myocardial infarction, 4:353-360

Burger scalene triangle
the circular reference system revisited, 3:313-317

C

Cardiac conduction system
electrophysiologic effects of Tween 80 in the myocardium and specialized conduction system of the canine heart, 2:145-152

Cardiac CT images
correlation between the direction of the interventricular septum estimated with transmission computed tomography and the initial QRS vectors, 4:403-410

Cardiac membrane potential
influence of varied $[Ca^{2+}]_o$ and $[Na^+]_o$ on slow responses of newborn and adult rat hearts, 1:43-46

Cardiac surgery
detection of cardiac dysrhythmias by continuous electrocardiographic recording in children undergoing cardiac surgery, 1:1-6

Cardioversion
elective cardioversion in the presence of conduction disturbances, 1:63-66

Children
detection of cardiac dysrhythmias by continuous electrocardiographic recording in children undergoing cardiac surgery, 1:1-6
racial variations in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-252
the spectrum of right bundle branch block as manifested in electrocardiographic body surface potential maps, 4:329-346

Cibenzoline
the electrophysiologic effects of oral, 1:15-24

Cineventriculography
diagnostic value of electrocardiogram and vectorcardiogram in postinfarction ventricular asynergy, 2:169-178

Circumclusion
intracardiac electrography in patients before and after surgical repair of secundum atrial septal defect, 4:347-352

Coarse fibrillation
ventricular fibrillation: the importance of being coarse, 4:393-400

Computer
the ECGD: a derivation of the ECG from VCG leads, 2:189-192

Concealed reentry
electrocardiographic and electrophysiologic features of dual pathways within the His bundle, 1:91-96

Concentration dependence
influence of varied $[Ca^{2+}]_o$ and $[Na^+]_o$ on slow responses of newborn and adult rat hearts, 1:43-46

Conduction disturbances
elective cardioversion in the presence of, 1:63-66

Contourography
clinical experience with a new dynamic display system for ambulatory ECG recordings, 1:67-74

D

Defibrillation
ventricular fibrillation: the importance of being coarse? 4:393-400

Derived ECG
the ECGD: a derivation of the ECG from VCG leads, 2:189-192

Dieuaide's chart
ECG aximeter, 2:193-194

Discordant alternans
effects of the ventricular premature beat on the alternation of the repolarization phase in ischemic myocardium during acute coronary occlusion in dogs, 3:229-238
potentiating effects of a ventricular premature beat

on the alternation of the ST-T complex of epicardial electrograms and the incidence of ventricular arrhythmias during acute coronary occlusion in dogs, 3:229-238

Dispersion of refractoriness
fluctuations in T-wave morphology and susceptibility to ventricular fibrillation, 3:209-218

Duration of ventricular fibrillation
ventricular fibrillation and transient arrhythmias after defibrillation in patients with acute myocardial infarction, 4:353-360

Dysrhythmia
detection of cardiac dysrhythmias by continuous electrocardiographic recording in children undergoing cardiac surgery, 1:1-6

E

ECG
clinical experience with a new dynamic display system for ambulatory ECG recordings, 1:67-74

ECGD
a derivation of the ECG from VCG leads, 2:189-192

Echocardiogram
pericardial effusion: relation of clinical, echocardiographic and electrocardiographic findings, 2:115-122
racial variations in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-252
the cardiac rhythm in accidental hypothermia, 2:123-138

Einthoven equilateral triangle
the circular reference system revisited, 3:313-317

Electrocardiogram
A comparative study of body surface isopotential mapping and, in diagnosing of myocardial infarction, 1:7-14
body surface isopotential maps in old inferior myocardial infarction undetectable by 12 lead electrocardiogram, 1:55-62
diagnostic value of electrocardiogram and vectorcardiogram in postinfarction ventricular asynergy, 2:169-178
ECG axiometer, 2:193-194
in patients with acute myocardial infarction treated with intracoronary Streptokinase infusion, 3:263-270
pericardial effusion: relation of clinical echocardiographic and electrocardiographic findings, 2:115-122
QT interval variability on the body surface, 2:179-188
racial variations in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-252
the cardiac rhythm in accidental hypothermia, 2:123-128
year-to-year variation of the orthogonal electrocardiogram and vectorcardiogram among 243 normal white males, 2:107-114

Echocardiography
left ventricular hypertrophy in left bundle branch block, 2:157-160

Electrocardiography
relationship between electrocardiographically and enzymatically estimated size in anterior myocardial infarction, 4:361-370
the relationship between electrocardiographic changes and early mortality rate in acute myocardial infarction, 2:139-144

Electrocardiography, ambulatory
detection of cardiac dysrhythmias by continuous electrocardiographic recording in children undergoing cardiac surgery, 1:1-6

Electrocardiology
electrocardiographic and electrophysiologic features of dual pathways within the His bundle, 1:91-96
international congress on, 3:307-308
ventricular fibrillation: the importance of being coarse? 4:393-400

Electrophysiology
effects of L-carnitine on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90
electrophysiologic effects of Tween 80 in the myocardium and specialized conduction system of the canine heart, 2:145-152
intracardiac electrography in patients before and after surgical repair of secundum atrial septal defect, 4:347-352
the electrophysiologic effects of oral cibenzoline, 1:15-24

Electrophysiology, clinical
latent abnormalities of sinus node function in patients with organic heart disease and normal sinus node on clinical basis, 4:385-392

Encircling endocardial ventriculotomy
ST segment elevation with ventricular aneurysm, results of, 1:75-78

Energy level
ventricular fibrillation and transient arrhythmias after defibrillation in patients with acute myocardial infarction, 4:353-360

Enzyme activity
relationship between electrocardiographically and enzymatically estimated size in anterior myocardial infarction, 4:361-370

Exercise testing
electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis, 1:33-42

H

His bundle dual pathways
electrocardiographic and electrophysiologic features of dual pathways within the His bundle, 1:91-96

His extrasystoles
exercise induced "Mobitz type II" second degree AV block in a patient with chronic bifascicular block (right bundle branch block and left anterior hemiblock), 4:409-412

Heart failure
pericardial effusion: relation of clinical, echocardiographic and electrocardiographic findings, 2:115-122

Heart rate
atrial fibrillation: minimal sampling interval to estimate average rate, 2:153-156

Hypertension
vector U loop in normal and hypertensive subjects, 2:161-168

Hypothermia
fluctuations in T-wave morphology and suscepti bility to ventricular fibrillation, 3:209-218

Hypothermia, accidental
the cardiac rhythm in, 2:123-138

Hypertonicity
effects of L-carnitine on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90

I

International congress on electrocardiology
a brief history, 3:307-308

Inverse problem
application of the single moving dipole inverse solution to the study of the Wolff-Parkinson-White syndrome in man, 3:271-288

Ischemia
fluctuations in T-wave morphology and susceptibility to ventricular fibrillation, 3:209-218

Ischemia, acute
effects of the ventricular premature beat on the alternation of the repolarization phase in ischemic myocardium during acute coronary occlusion in dogs, 3:229-238

Isopotential mapping
electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis, 1:33-42

J

Junctional rhythms
pseudo failure of sensing in patients with universal pacemakers and junctional rhythm, 2:205-207

L

L-carnitine
effects of, on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90

Lead systems
the ECGD: a derivation of the ECG from VCG leads, 2:189-192

Left ventricular hypertrophy
in left bundle branch block, 2:157-160

Left ventricular overloading
magnetocardiograms of patients with, recorded with a second-derivative SQUID gradiometer, 3:219-228

Lepeschin, Eugene, career of
the fiftieth anniversary of, 3:309-312

M

Magnetocardiograms
of patients with left ventricular overloading recorded with a second-derivative SQUID gradiometer, 3:219-228

Mapping
relation between the location of the infarcted area in body surface isopotential mapping and the location of myocardial infarction in vectorcardiography, 1:47-54
ventricular fibrillation: the importance of being coarse 4:393-400

Mapping, body surface
temporal evolution of body surface map patterns following acute inferior myocardial infarction, 4:319-328

Mapping, body surface isopotential
a comparative study of, and electrocardiogram in diagnosing of myocardial infarction, 1:7-14
in old inferior myocardial infarction undetectable by 12 lead electrocardiogram, 1:55-62

Mapping, body surface potential
QT interval variability on the body surface, 2:179-188
the spectrum of right bundle branch block as manifested in electrocardiographic body surface potential maps, 4:329-346

Mobitz type II
exercise induced "Mobitz type II" second degree AV block in a patient with chronic bifascicular block (right bundle branch block and left anterior hemiblock), 4:409-412

Modulation
of ventricular parasystole by extraneous depolarization, 2:195-198

Mortality rate, early
the relationship between electrocardiographic changes and, in acute myocardial infarction, 2:139-144

Moving dipole
application of the single moving dipole inverse solution to the study of the Wolff-Parkinson-White syndrome in man, 3:271-287

Myocardial infarction
a comparative study of body surface isopotential mapping and the electrocardiogram in diagnosing of, 1:7-14
relation between the location of the infarcted area in body surface isopotential mapping and the location of, in vectorcardiography, 1:47-54
the electrocardiogram in patients with acute, treated with intracoronary Streptokinase infusion, 3:263-269
the relationship between electrocardiographic changes and early mortality rate in acute, 2:139-144

Myocardial infarction, acute inferior
temporal evolution of body surface map patterns following, 4:319-328

Myocardial infarction, anterior
relationship between electrocardiographically and enzymatically estimated size in, 4:361-370

Myocardial infarction, inferior
body surface isopotential maps in, undetectable by 12 lead electrocardiogram, 1:55-62

Myocardial ischemia
effects of L-carnitine on action potential of canine papillary muscle during hypoxic perfusion, 1:85-90

O

Organophosphate intoxication
polymorphic ventricular tachycardia and other complex arrhythmias in organophosphate insecticide poisoning, 1:97-102

P

Pacemaker shift
studies on the mechanisms of secondary pause after high rate atrial pacing, 1:79-84

Pacemakers, DDD
pseudo failure of sensing in patients with universal pacemakers and junctional rhythms, 2:205-207

Pacing
electrocardiographic effects of myocardial ischemia induced by atrial pacing in dogs with coronary stenosis, 1:33-42

Parasystole
second degree entrance block with supernormal conduction in intermittent ventricular parasystole, 2:199-204

Pericardial effusion
relation of clinical, echocardiographic and electrocardiographic findings, 2:115-122

Polymorphic ventricular tachycardia
and other complex arrhythmias in organophosphate insecticide poisoning, 1:97-102

Posterior myocardial infarction
electrocardiographic tall R waves in the right precordial leads, 2:129-138

Postextrasystolic potentiation of alternans
effects of the ventricular premature beat on the alternation of the repolarization phase in ischemic myocardium during acute coronary occlusion in dogs, 3:229-238
potentiating effects of a ventricular premature beat on the alternation of the ST-T complex of epicardial electrograms and the incidence of ventricular arrhythmias during acute coronary occlusion in dogs, 3:289-301

Postinfarction ventricular asynergy
diagnostic value of electrocardiogram and vectorcardiogram in, 2:169-178

Preexcitation
application of the single moving dipole inverse solution t the study of the Wolff-Parkinson-White syndrome in man, 3:271-287

Prematurity index
the timing of ventricular premature complexes initiating chronic ventricular tachycardia, 4:377-384

Prominent anterior forces
electrocardiographic tall R waves in the right precordial leads, 2:129-138

Protection
modulation ov ventricular parasystole by extraneous depoloarizations, 2:195-198

Q

QRS axis
ECG aximeter, 2:193-194

QT interval
relation between QT interval and heart rate. Applications and limitations of Bazett's formula, 4:371-376
variability on the body surface, 2:179-188

R

Racial differences
racial variations in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-252

Rat ventricular muscle
influence of varied $[Ca^{2+}]_o$ and $[Na^+]_o$ on slow responses of newborn and adult rat hearts, 1:43-46

Repolarization
fluctuations in T-wave morphology and susceptibility to ventricular fibrillation, 3:209-218

Right ventricular infarction, acute
vectorcardiographic features of, 3:253-262

Right bundle branch block
the spectrum of right bundle branch block as manifested in electrocardiographic body surface potential maps, 4:329-346

RR interval
relation between QT interval and heart rate. applications and limitations of Bazett's formula, 4:371-376

S

Sex differences
racial differences in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-352

Sick sinus syndrome
co-existing tachycardia and bradycardia dependent incomplete and complete right bundle branch block; evidence for diffuse conduction system involvement, 3:303-306

Sinoatrial conduction disturbance
studies on the mechanisms of secondary pause after high rate atrial pacing, 1:79-84

Sinus node function
latent abnormalities of, in patients with organic heart disease and normal sinus node on clinical basis, 4:385-392
the role of the autonomic nervous system on, in patients with intermittent sinoatrial block, 1:25-32

Slow channel
influence of varied $[Ca^{2+}]_o$ and $[Na^+]_o$ on slow responses of newborn and adult rat hearts, 1:43-46

SQUID gradiometer, second-derivative
magnetocardiograms of patients with left ventricular overloading recorded with a, 3:219-228

ST segment
elevation with ventricular aneurysm: results of encircling endocardial ventriculotomy, 1:75-78
temporal evolution of body surface map patterns following acute inferior myocardial infarction, 4:319-328

ST vector
vectorcardiographic features of acute right ventricular infarction, 3:253-262

Steptokinase infusion
the electrocardiogram in patients with acute myocardial infarctions treated with intracoronary Streptokinase infusion, 3:263-269

Supernormal conduction
second degree entrance block with, in intermittent ventricular parasystole, 2:199-204

Supernormality
electrocardiographic and electrophysiologic features of dual pathways within the His bundle, 1:91-96

T

Tachycardia
and bradycardia dependent incomplete and complete right bundle branch block: evidence for diffuse conduction system involvement, 3:303-306
fluctuations in T-wave morphology and susceptibility to ventricular fibrillation, 3:209-218

Tween 80
electrophysiologic effects of, in the myocardium and specialized conduction system of the canine heart, 2:145-152

U

U loop
vector U loop in normal and hypertensive subjects, 2:161-168

V

Variation, year-to-year
of the orthogonal electrocardiogram and vector-

cardiogram among 243 normal white males, 2:107-114

VCG
the ECGD: a derivation of the ECG from VCG leads, 2:189-192

Vectorcardiogram
correlation between the direction of the interventricular septum estimated with transmission computed tomography and the initial QRS vectors, 4:401-408
diagnostic value of electrocardiogram and, in postinfarction ventricular asynergy, 2:169-178
racial variations in electrocardiograms and vectorcardiograms between black and white children and their genesis, 3:239-252
vector U loop in normal and hypertensive subjects, 2:161-168
vectorcardiographic features of acute right ventricular infarction, 3:253-262
year-to-year variation of the orthogonal electrocardiogram and, among 243 normal white males, 2:107-114

Vectorcardiography
electrocardiographic tall R waves in the right precordial leads, 2:129-138
relation between the location of the infarcted area in body surface isopotential mapping and the location of myocardial infarction in, 1:47-54

Ventricular arrhythmias
potentiating effects of a ventricular premature beat on the alternation of the ST-T complex of epicardial electrograms and the incidence of ventricular arrhythmias during acute coronary occlusion in dogs, 3:289-302

Ventricular extrasystoles
second degree entrance block with supernormal conduction in intermittent ventricular parasystole, 2:199-204

Ventricular fibrillation
pseudo failure of sensing in patients with universal pacemakers and junctional rhythms, 2:205-207
and the importance of being coarse, 4:293-400

Ventricular premature complexes
the timing of, initiating chronic ventricular tachycardia, 4:377-384

Ventricular tachycardia
the timing of ventricular premature complexes initiating chronic, 4:377-384
ventricular fibrillation and transient arrhythmias after defibrillation in patients with acute myocardial infarction, 4:353-360

Z

Zao circular system
the circular reference system revisited, 3:313-317

NUMBER 1

Original Communications:

Detection of Cardiac Dysrhythmias by Continuous Electrocardiographic Recording in Children Undergoing Cardiac Surgery
By *R.E. Ringel, H.L. Kennedy, J.I. Brenner, G.S. Roberts and M.A. Berman* 1

A Comparative Study of Body Surface Isopotential Mapping and the Electrocardiogram in Diagnosing of Myocardial Infarction
By *S. Toyama, K. Suzuki, K. Yoshino and K. Fujimoto* 7

The Electrophysiologic Effects of Oral Cibenzoline
By *M. Kushner, E. Magiros, R. Peters, N. Carliner, G. Plotnick and M. Fisher* 15

The Role of the Autonomic Nervous System on Sinus Node Function in Patients with Intermittent Sinoatrial Block
By *P. Alboni, L. Filippi, R. Pirani, E. De Lorenzi and A. Masoni* 25

Electrocardiographic Effects of Myocardial Ischemia Induced by Atrial Pacing in Dogs with Coronary Stenosis. II. Comparison of S-T Segment and QRS Changes in Dogs with Left Circumflex Arterial Narrowing
By *D.M. Mirvis* 33

Influence of Varied $[Ca^{2+}]_o$ and $[Na^{+}]_o$ on Slow Responses of Newborn and Adult Rat Hearts
By *T. Yamamoto, H. Hirose, S. Sugano and H. Sawazaki* 43

Relation between the Location of the Infarcted Area in Body Surface Isopotential Mapping and the Location of Myocardial Infarction in Vectorcardiography
By *K. Suzuki, S. Toyama, K. Yoshino and Y. Fudemoto* 47

Body Surface Isopotential Maps in Old Inferior Myocardial Infarction Undetectable by 12 Lead Electrocardiogram
By *J.I. Osugi, T. Ohta, J. Toyama, F. Takatsu, T. Nagaya and K. Yamada* 55

Elective Cardioversion in the Presence of Conduction Disturbances
By *W.E. Cascio, J.R. Foster and D.S. Sheps* 63

Clinical Experience with a New Dynamic Display System for Ambulatory ECG Recordings
By *C. Contini, M.G. Bongiorni, G. Mazzocca, M. Baratto, D. Levorato and M. Pauletti* 67

ST Segment Elevation with Ventricular Aneurysm: Results of Encircling Endocardial Ventriculotomy
By *T.R. Engel, R. Caine, P.R. Kowey and J.O. Finnegan* 75

Studies on the Mechanisms of Secondary Pause after High Rate Atrial Pacing
By *G.Schmidt, S. Mashima, T.K. Shen, K. Takayanagi and S. Murao* 79

Effects of L-carnitine on Action Potential of Canine Papillary Muscle during Hypoxic Perfusion
By *H. Hayashi, Y. Suzuki, M. Abe, K. Nishihara, Y. Masumura, T. Kamikawa, A. Kobayashi and N. Yamazaki* 85

Case Studies:

Electrocardiographic and Electrophysiologic Features of Dual Pathways within the His Bundle
By *R. Bonamini, L. Mangiardi, P. Presbitero, E. Rosettani and A. Brusca* 91

Polymorphic Ventricular Tachycardia and Other Complex Arrhythmias in Organophosphate Insecticide Poisoning
By *D.M. Brill, A.S. Maisel and R. Prabhu* 97

Letters to the Editor:

Ventricular Tachyarrhythmias Complicating the Idiopathic or Acquired Long QT Syndrome: A Reentry in the His-Purkinje System?
By *V. Santinelli, M. Chiariello and M. Condorelli; C.P. Reddy* 103

Further Evidence for Decremental Conduction in the Sinoatrial Junction
By *J.A. Reiffel* 104

Dr. Zaven Dolabjian
By *H.J.C. Swan* 106

NUMBER 2

Original Communications:

Year-to-Year Variation of the Orthogonal Electrocardiogram and Vectorcardiogram among 243 Normal White Males
By *C.D. McManus, J.T. Doyle and H.V. Pipberger* 107

Pericardial Effusion: Relation of Clinical Echocardiographic and Electrocardiographic Findings
By *P.N. Casale, R.B. Devereux, P. Kligfield, R.R. Eisenberg and M.C. Phillips* 115

The Cardiac Rhythm in Accidental Hypothermia
By *M. Okada* 123

Electrocardiographic Tall R Waves in the Right Precordial Leads. Vectorcardiographic and Electrocardiographic Distinction
By *M.J. Zema and P. Kligfield* 129

The Relationship between Electrocardiographic Changes and Early Mortality Rate in Acute Myocardial Infarction
By *J. Herlitz and A. Hjalmarson* 139

Electrophysiologic Effects of Tween 80 in the Myocardium and Specialized Conduction System of the Canine Heart
By *E. Torres-Arraut, S. Singh and A.S. Pickoff* 145

Atrial Fibrillation: Minimal Sampling Interval to Estimate Average Rate
By *J.H. Watt, A.P. Donner, C.M. McKinney and G.J. Klein* 153

Left Ventricular Hypertrophy in Left Bundle Branch Block
By *L.M. Noble, S.B. Humphrey and G.B. Monaghan* 157

Vector U Loop in Normal and Hypertensive Subjects
By *Y. Nakaya, Y. Suma, M. Takahashi, K. Saito, M. Sumi, M. Murakami, K. Fujino and H. Mori* 161

Diagnostic Value of Electrocardiogram and Vectorcardiogram in Postinfarction Ventricular Asynergy
By *E. Piccolo, P. Delise, G. Trevi, F. DiPede, P. Allibardi, I. Sheiban, A. Reale and E. Martuscelli* 169

QT Interval Variability on the Body Surface
By *J.C. Sylven, B.M. Horacek, C.A. Spencer, G.A. Klassen and T.J. Montague* 179

Editorial:

The ECGD: A Derivation of the ECG from VCG Leads
By *G.E. Dower* 189

Methods:

ECG Aximeter
By *J. Wartak* 193

Case Studies:

Modulation of Ventricular Parasystole by Extraneous Depolarizations
By *A. Castellanos, E. Melgarejo, R. Dubois and R.M. Luceri* 195

Second Degree Entrance Block with Supernormal Conduction in Intermittent Ventricular Parasystole
By *S. Kinoshita, K. Nakagawa, Y. Kato and T. Yasukouchi* 199

Pseudo Failure of Sensing in Patients with Universal Pacemakers and Junctional Rhythms
By *R. Quintal, R.W. Dhurandhar and R.K. Jain* 205

NUMBER 3

Original Communications:

Fluctuations in T-Wave Morphology and Susceptibility to Ventricular Fibrillation
By *D.R. Adam, J.M. Smith, S. Akselrod, S. Nyberg, A.O. Powell and R.J. Cohen* 209

Magnetocardiograms of Patients with Left Ventricular Overloading Recorded with a Second-Derivative SQUID Gradiometer
By *K. Fujino, M. Sumi, D. Saito, M. Murakami, T. Higuchi, Y. Nakaya and H. Mori* 219

Effects of the Ventricular Premature Beat on the Alternation of the Repolarization Phase in Ischemic Myocardium during Acute Coronary Occlusion in Dogs
By *H. Hashimoto, K. Suzuki and M. Nakashima* 229

Racial Variations in Electrocardiograms and Vectorcardiograms between Black and White Children and Their Genesis
By *P.S. Rao, M.K. Thapar and R.J. Harp* 239

Vectorcardiographic Features of Acute Right Ventricular Infarction
By *W. Carson, Y.Z. Tseng, P.J. Huang, C.D. Tseng and T.L. Wu* 253

The Electrocardiogram in Patients with Acute Myocardial Infarctions Treated with Intracoronary Streptokinase Infusion
By *B. Niggemann and D. Gann* 263

Application of the Single Moving Dipole Inverse Solution to the Study of the Wolff-Parkinson-White Syndrome in Man
By *R.M. Gulrajani, H. Pham-Huy, R.A. Nadeau, P. Savard, J. de Guise, R.E. Primeau and F.A. Roberge* 271

Potentiating Effects of a Ventricular Premature Beat on the Alternation of the ST-T Complex of Epicardial Electrograms and the Incidence of Ventricular Arrhythmias during Acute Coronary Occlusion in Dogs
By *H. Hashimoto, M. Asano and M. Nakashima* 289

Case Report:

Co-existing Tachycardia and Bradycardia Dependent Incomplete and Complete Right Bundle Branch Block: Evidence for Diffuse Conduction System Involvement
By *T. Tajima, M. Ide and Y. Dohi* 303

Editorials:

The International Congress on Electrocardiology: A Brief History
By *Z.L. Dolabjian* 307

The Fiftieth Anniversary of Dr. Lepeschkin's Career
By *S. Rush* 309

The Circular Reference System Revisited
By *Z.Z. Zao* 313

NUMBER 4

Original Communications:

Temporal Evolution of Body Surface Map Patterns Following Acute Interior Myocardial Infarction
By T.J. Montague, E.E. Smith, D.E. Johnstone, C.A. Spencer, L.D. Lalonde, R.M. Bessoudo, M.J. Gardner, R.N. Anderson and B.M. Horacek 319

The Spectrum of Right Bundle Branch Block as Manifested in Electrocardiographic Body Surface Potential Maps
By J. Liebman, Y. Rudy, P. Diaz, C.W. Thomas and R. Plonsey 329

Intracardiac Electrography in Patients before and after Surgical Repair of Secundum Atrial Septal Defect
By J.P. Bagger, P.E. Bloch Thomsen, P. Bjerregaard, H. Gotzsche, and K. Rasmussen 347

Ventricular Fibrillation and Transient Arrhythmias after Defibrillation in Patients with Acute Myocardial Infarction
By R.H. Geuze and R.W. Koster 353

Relationship between Electrocardiographically and Enzymatically Estimated Size in Anterior Myocardial Infarction
By J. Herlitz, A. Hjalmarson and J. Waldenstrom 361

Relation Between QT Interval and Heart Rate. Applications and Limitations of Bazett's Formula
By M. Kawataki, R. Kashima, H. Toda and H. Tanaka 371

The Timing of Ventricular Premature Complexes Initiating Chronic Ventricular Tachycardia
By W.-H. Qi, N.S. Fineberg and B. Surawicz 377

Latent Abnormalities of Sinus Node Function in Patients with Organic Heart Disease and Normal Sinus Node on Clinical Basis
By P. Alboni, R. Pirani, L. Filippi, S. Scarfo', E. De Lorenzi, A.M. Tomasi and A. Masoni 385

Ventricular Fibrillation: The Importance of Being Coarse?
By D.L. Jones and G.J. Klein 393

Correlation between the Direction of the Interventricular Septum Estimated with Transmission Computed Tomography and the Initial QRS Vectors
By N. Kawai, I. Sotobata, S. Noda, M. Okada, T. Kondo, M. Yokota, K. Ymauchi and J. Tsuzuki 401

Case Report:

Exercise Induced "Mobitz Type II" Second Degree AV Block (Right Bundle Branch Block and Left Anterior Hemiblock)
By G. Freeman, M.H. Hwang, J. Danoviz, J.F. Moran and R.M. Gunnar 409

Index 414